

DIMENSIONALLY STABLE BALLOONS

ABSTRACT OF THE DISCLOSURE

A medical balloon composed of a micro-composite material which provides for radial expansion of a balloon to a predetermined extent, but which has minimal longitudinal growth during balloon inflation. The micro-composite material includes a fibril component, a matrix component, and optionally, a compatibilizer. The fibril component may preferably be liquid crystal polymer fibers randomly scattered through out the balloon material. The liquid crystal polymers are created by extrusion at high speed. An alternative fibril component may be a PET fibers which are uniformly spaced about the balloon material and extend through out the length of the balloon material tube.

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